JC20 Rec'd PCT/PTO 01 JUL 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

App. No. : (Nat'l. Stage of PCT/JP2003/016493)

Applicant : Akihiko Namba, et al. Filed : On even date herewith

Tech. Cntr./Art Unit : (To be assigned)
Examiner : (To be assigned)

Docket No. : 39.050 Customer No. : 29453

Honorable Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This constitutes an Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.97 and 1.98. The documents listed on the accompanying Form PTO/SB/08A are hereby brought to the Examiner's attention in the patent application identified above.

REMARKS

Cite Nos. F1 through F4 and O1 through O3, as listed on Form PTO/SB/08A, were cited in the International Search Report for PCT/JP2003/016493, of which the presently submitted patent application is to be the National Stage. Among these, Cite Nos. F1 through F4 are not in English.

Furthermore, Cite Nos. F5 through F8 are not in English either.

Concise Explanation of Relevance/Copy of Translation Pursuant to 37 C.F.R. § 1.98(a)(3)

As a concise explanation of the relevance of Cite Nos. F1 through F4, a copy of the International Search Report in English accompanies this paper.

Nat'l. Stage of Int'l. App. No. PCT/JP2003/016493 IDS Submission

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Cite No. F5 is mentioned in the paragraph that begins in line 8 on page 5 in the Background Art section of the present specification. The relevance of Cite Nos. F6 through F8 is discussed in the paragraph that begins in line 15 on page 4 therein.

Furthermore, English abstracts of Cite Nos. F1 through F8 are available on the Japanese Patent Office website through Patent Abstracts of Japan, and a copy of the corresponding abstract is attached to the back of each reference.

The Examiner is respectfully requested to consider these references, to indicate so on the accompanying Form PTO/SB/08A, and to make the document of record in the present application.

Respectfully submitted,

Date: June 29, '05

James W. Judge

Registration No. 42,701

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PTO/SB/08A (08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Akihiko Namba

(To be assigned)

December 22, 2003 [371(c) date]

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Application Number

First Named Inventor

Filing Date

Art Unit

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Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Examiner Name (To be assigned) Attorney Docket Number 39.050

			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2 (# known)}			rigules Appeal
		US-			
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		FORE	IGN PATENT DOCL	JMENTS		
Examiner Initials*	Cite No.1		Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ^{3 -} Number ^{4 -} Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
	F1	JP-2001-064094-A	03-13-2001	Sharp		1
	F2	JP-2000-272994-A	10-03-2000	Sharp		~
	F3	JP-H11-214321-A	08-06-1999	Sumitomo Electric		V
	F4	JP-H07-106266-A	04-21-1995	Sony		~
	F5	JP-H06-166594-A	06-14-1994	De Beers		~
	F6	JP-H11-100296-A	04-13-1999	Sharp		1

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Application Number

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First Named Inventor

Akihiko Namba

Art Unit

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Examiner Name

(To be assigned)

Sheet

Attorney Docket Number

U. S. PATENT DOCUMENTS **Publication Date** Name of Patentee or Pages, Columns, Lines, Where Cite **Document Number** Examiner MM-DD-YYYY Relevant Passages or Relevant Applicant of Cited Document Initials' No. Figures Appear Number-Kind Code² (# known) US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-LIS-US-

Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Τ
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
	F7	JP-H05-024991-A	02-02-1993	Matsushita Electric		~
	F8	JP-H06-048715-A	02-22-1994	Matsushita Electric		~
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INFO	ORMATION	I DIS	CLOSURE	Filing Date	December 22, 2003 [371(c) date]	
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	(Ose as many sne	eets as m	ecessary)	Examiner Name	(To be assigned)	
Sheet	3	of	3	Attorney Docket Number	39.050	

		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-number(s), publisher, city and/or country where published.			
	01	G. Popovici, et al., "Prospective n-type impurities and methods of diamond doping," Diamond and Related Materials, Vol. 4, 1995, pp. 1305-1310		
	02	S. A. Kajihara, et al., "Nitrogen and Potential n-Type Dopants in Diamond," Physical Review Letters, Vol. 66, No. 15, 15 Apr 1991, pp. 2010-2013		
	О3	R. Kalish, "The search for donors in diamond," Diamond and Related Materials," Vol. 10, 2001, pp. 1749-1755		
	04	J. F. Prins, "Activation of boron-dopant atoms in ion-implanted diamonds," Physical Review B, Vol. 38, No. 8, 15 September 1988, pp. 5576-5584		
	O5	F. Fontaine, et al., "Boron implantation/in situ annealing procedure for optimal p-type properties of diamond," Appl. Phys. Lett., Vol. 68, No. 16, 15 April 1996, pp. 2264-2266		
	O6	J. F. Prins, "Towards improving the quality of semiconduting diamond layers doped with large atoms," Diamond and Related Materials, Vol. 8, 1999, pp. 1635-1641		

Examiner	Date	
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